

PLANTS OF THE SANDWICH ISLANDS COLLECTED BY
ARCHIBALD MENZIES

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Introduction

Dr. Archibald Menzies MD. made his second exploration of the Pacific Islands while surgeon and naturalist on HMS. Discovery under Capt. George Vancouver. In each of the years 1792, 1793, and 1794 they visited the Sandwich (= Hawaiian) Islands, and they explored on the six largest islands of the group.

Menzies had botanical knowledge and interest, and he collected plant specimens. He made noteworthy trips to the summits of Hualalai and of Mauna Loa, on Hawaii Island. Today it would be of great interest to know the exact localities at which he collected his specimens.

He kept a journal, and it records many other details, but almost nothing on botany. When nearing home the captain ordered Menzies to turn over this journal. Menzies refused, was placed under arrest, discharged from the navy, and forbidden to publish anything about the trip. This foolish insubordination of his caused the loss of much botanical information. His plant specimens were placed in the British Museum of Natural History, but no list of them was kept, and there has been no summary of them.

In 1950 and 1975 the writer spent a total of five weeks searching in this herbarium for early collections from the Pacific Islands. He identified many that were unnamed, and compiled lists of the significant collections, one being of the Menzies plants from the Sandwich Islands.

It has been argued that the locality data on the Menzies specimens is untrustworthy. The present list gives a basis for a judgement on this question.

Two endemic Sandwich Islands plants were labeled merely *Insulae Oceani Pacifici*. They were: Marattia Douglasii (Presl) Baker
Microsprium spectrum (Kaulf.) Copel.

One plant labeled as from the Sandwich Islands

was described as Zemisne Menziesii Degener & Sherff, but it has proven to be Scalesia affinis Hook. f., subsp. gumifera (Hook. f.) Harling, a native of the Galapagos Islands.

One unmounted fern, Pityrogramma triangularis (Kaulf.) Maxon, was labeled Sandwich Islands, Menzies, but it was an exact match for and evidently a part of the collection from New Georgia, of this fern, native from British Columbia to Lower California.

A specimen of Acrostichum aureum L., determined by Solander, was labeled by Carruthers Sandwich Islands, A. Menzies, 1792-3. This fern is pantropic, but is not a part of the Hawaiian native flora.

Besides these questionable ones, there were found among the Menzies plants 65 endemic Hawaiian species labeled Sandwich Islands; and 18 more with also the particular island names, Owhyhee, Mowee, Ouau, and Atoi, or as they are now spelled Hawaii, Maui, Oahu, and Kauai.

So, of the 95 Menzies collections marked Sandwich Islands, 92 are certainly correct, but 3 are erroneous. The percentage of error is about 3%. Consequently, in lack of any other pertinent evidence, the Sandwich Islands plant records by A. Menzies should be accepted just as originally recorded.

LIST OF SANDWICH ISLANDS COLLECTIONS BY MENZIES
PTERIDOPHYTA

Psilotaceae

Psilotum nudum (L.) Griseb., 1792-3.

Lycopodiaceae

Lycopodium cernuum L., 1792-3. h

Lycopodium polytrichoides Kaulf., two sects.

Selaginellaceae

Selaginella arbuscula (Kaulf.) Spring, 1792-3.

Selaginella Menziesii (Hook. & Grev.) Spring

Selaginella sandvicense Baker, holotype.

Marattiaceae

Marattia Douglasii (Presl) Baker, Insulae
Oceani Pacifici.

Hymenophyllaceae

Sphaerocionium lanceolatum (H. & A.) Copel.

Insulae Oceani Pacifici.

Vandenboschia davallioides (Gaud.) Copel., 1792-3.

Dicksoniaceae

Cibotium glaucum (Sm.) H. & A., Owhyhee (=Hawaii
two sheets.

Pteridaceae

Doryopteris decipiens (Hook.) J. Sm., 1792-3.

Microlepia setosa (Sm.) Alston.

Pellaea ternifolia (Cav.) Link., 1792-3.

Pteridium aquilinum (L.) Kuhn, var. *decompositum*
(Gaud.) Tryon, 1792-3.

Pteris cretica L., 1792-3.

Pteris irregularis Kaulf., 1792-3.

Sphenomeris chinensis (L.) Maxon.

Blechnaceae

Doodia Kunthiana Gaud., 1792-3.

Aspleniaceae

Asplenium densum Brack., 1792-3.

Asplenium rhipidoneuron W. J. Robins., 1792-3.

Asplenium schizophyllum C. Chr.

Diellia Mannii (Eaton) W. J. Robins.

Aspidiaceae

Athyrium Arnottii (Brack.) Milde.

Athyrium microphyllum (Sm.) Alston, 1792-3.

Cystopteris Douglasii Hook.

Elaphoglossum alatum Gaud.

Elaphoglossum hirtum (Sw.) C. Chr., var.
micans (Mett.) C. Chr.

Polypodiaceae

Amphoradenium tamariscinum (Kaulf.) Copel.
Owhyhee (= Hawaii).

Grammitis Hookeri (Brack.) Copel., 1792-3.

Microsorium spectrum (Kaulf.) Copel., Insulae
Oceani Pacifici.

Polypodium pellucidum Kaulf., 1792-3.

Thelypteridaceae

Christella cyatheoides (Kaulf.) Holttum.

Cyclosorus interruptus (Willd.) H. Ito.

Pneumatopteris sandwicensis (Brack.) Holttum.

PHANEROGAMAE

Gramineae

Sporobolus virginicus (L.) Kunth, Atooi (= Kauai),
Sepr. 1787, two sheets. Evidently by Menzies on
the Capt. Colnett voyage of the "Prince of Wales."

Cyperaceae

Cyperus sandwicensis Kuek., Owhyhee, Byron's Bay,
(= Hawaii, Hilo Bay).

Scirpus validus Vahl, Ouau (= Oahu), determined
by Nuttall.

Liliaceae

Astelia Menziesiana Sm., Sandwich Islands, Messrs.
Menzies & Dav. Nelson, two sheets. Data com-
bined and confused. Holotype or paratype.

Urticaceae

Pipturus Brighamii Skottsb.

Santalaceae

Exocarpus Gaudichaudii A.DC.

Polygonaceae

Rumex giganteus Ait. f., mixed with Dav. Nelson
collection.

Chenopodiaceae

Chenopodium oahuense (Meyen) Aellen, Mowee
(= Maui), two sheets.

Amaranthaceae

Achyranthes splendens Mart. ex Moq., Mowee
(= Maui).

Alternanthera Menziesii St. John.

Charpentiera obovata Gaud.

Phytolaccaceae

Phytolacca sandwicensis Endl.

Capparidaceae

Capparis sandwichiana DC., var. *sandwichiana*.

Rosaceae

Osteomeles anthyllidifolia Lindl., 1794.

Rubus hawaiiensis Gray, 1794. Messrs. Menzies &
Dav. Nelson, three branches mixed and confused.

Leguminosae

Caesalpinia Bonduc (L.) Roxb.

Erythrina sandwicensis Deg., 1794.

Mezoneuron kavaense (Mann) Hbd.

Sophora chrysophylla (Salisb.) Seem.

Geraniaceae

Geranium cuneatum Hook., on top of mountains.

Sapindaceae

Dodonaea eriocarpa Sm.

Dodonaea viscosa Jacq., f. *spatulata* (Sm.) Sherff.

Malvaceae

Abutilon incanum (Link) Sweet.

Gossypium tomentosum Nutt., Messrs. Menzies &

Dav. Nelson. Specimens combined, data confused.

Sida fallax Walp., two sheets.

Thymeliaceae

Wikstroemia eugenioides Skottsb., Mowee (= Maui).

Myrtaceae

Eugenia malaccensis L., Mowee (= Maui), two sheets.

Metrosideros polymorpha Gaud., two sheets.

Onagraceae

Ludwigia octivalvis (Jacq.) Raven, 1794.

Araliaceae

Cheirodendron trigynum (Gaud.) Heller, two sheets,
one of them mixed with the Dav. Nelson collection.

Umbelliferae

Spermolepis hawaiiensis Wolff, Mowee (= Maui).

Ericaceae

Vaccinium calycinum Sm., mounted with a Dav.
Nelson collection.

Vaccinium dentatum Sm., mounted with a Dav.
Nelson collection of *V. reticulatum*.

Vaccinium reticulatum Sm., mounted with a Dav.
Nelson collection of the same species.

Epacridaceae

Styphelia Douglasii (Gray) F. Muell. ex Skottsb.,
Mowee (= Maui). Mounted with a Dav. Nelson
collection of *S. Tameiameiae*.

Styphelia Tameiameiae (Cham.) F. Muell., Mowee
(= Maui), 1794, and two other sheets, one
approaching var. *Brownii* (Gray) St. John, and
mixed with a Dav. Nelson collection.

Myrsinaceae

Myrsine lanaiensis Hbd., Mowee (= Maui).

Convolvulaceae

Cuscuta sandwichiana Choisy, Owhyhee (= Hawaii).

Jacquemontia sandwicensis Gray, mounted with a
Dav. Nelson specimen.

Labiatae

Phyllostegia brevidens Gray, Mowee (= Maui).

This is the first record for Maui, if the data are correct. It was mixed with *P. glabra*, var. *Macraei*, Mann & Brigham 224.

Phyllostegia macrophylla (Gaud.) Benth., two sheets, one mounted with a Dav. Nelson collection.

Phyllostegia mollis Benth.

Stenogyne scrophularioides Benth.

Solanaceae

Solanum puberulum Nutt.

Solanum sandwicense H. & A., Ouau (= Oahu), determined by Nuttall.

Myoporaceae

Myoporum sandwicense Gray, mixed with a Dav. Nelson collection.

Plantaginaceae

Plantago princeps C. & S., Mowee (= Maui).

Rubiaceae

Coprosma ernodeoides Gray, Hawaii, 1793.

Coprosma montana Hbd., var. *montana*, Hawaii, 1793.

Hedyotis Schlechtendahliana Steud., subsp. *tenuifolia* Fosb., 1793, determined by Fosberg.

Lobeliaceae

Clermontia coerulea Hbd., 1794, two sheets.

Compositae

Bidens asymmetrica (Levl.) Sherff, determined by Sherff.

Bidens Menziesii (Gray) Sherff.

Bidens micrantha Gaud.

Lipochaeta connata (Gaud.) DC., determined by Sherff.

Lipochaeta lavarum (Gaud.) DC., two sheets.

Railliardia ciliolata DC., var. *juniperoides* Gray, on the top of mountains.

The collection dates when given as 1792-3, were added at a later time, mostly by Carruthers, apparently with the idea that those were the limits of his visits, while actually he made these visits on Vancouvers's voyage in 1792, 1793, and 1794.